



MISSOURI BOTANICAL GARDEN

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GEORGE ENGELMANN BOTANICAL NOTEBOOKS

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Euphorbia

Spec 247-2627

Euphorbia

St Louis

before 1848

Euphorbia



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MISSOURI
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6714A

46814.014

Gymnospermae *Podocarpaceae*

14:100
98
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81: x

101.714

Gymnospermae *Podocarpaceae*



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Euphorbia

(*E. typica* foliis) instans; capsule
glabris angulosis, seminibus
nigroantibus, ovatis, oblongangulis;
transversi angulosi;

P. var. flostra Indigo, Texas
glabrius, foliis ~~g~~ulo ^{longis} petiolatis
labi condit, vasis apice angustatis
petiolatis; capsule oblongius angulatis
seminibus punctis majoribus.

I have seen species from New Jersey,
Pennsylvania, Ohio, Kentucky, Missouri,
also from 'Texas' S. Texas.
Seeds a little more than $\frac{1}{100}$ of a line long,
pretty thick - proportion.

Euphorbia maculata Lin? annua
erecta petiolata, pilosa, foliis spars-pilosis, "opposite", inferioribus
oppositis, ovatis, basi: oblique subcordatis, ^{nothing but}
oblongangulis, uncinata serratis,
Opposite petiolatis, stipulis subulatis petiolis,
pedicellis petiolos, operculis, - distichous
ramulis angulis, glandulis involucris
marginis petiolatae contractis, capsule
glabris angulangulis; seminibus
nigroantibus oblongis, acute angulatis,
transversi angulosi.

New Jersey - Skirt of Harbor (Toms) Hardwicke
on the Eel.

A small plant, 6 inches long
near the foregoing but apparently distinguished
by the greater hairiness, the shorter more
ovoid leaves and the smaller seed
with very acute angles; it is nearly as
long as in the last, but much less
thick. - Leaves in these specimens
not spotted! Perhaps only a variety
of the last? - *E. maculata* Lin

Euphorbia depressa annua prostrata
pilosa, foliis ~~oblongis~~ ^{longis} linearibus, ^{+ pilosis} ~~oblongis~~
obtusis, vasis apice serratis, basi:
oblique obesus petiolis brevibus. stipulis
subulatis glabris, pedicellis petiolos
angustatis. in ramulis brevibus ^{foliis} pseud. lateritibus
glomeratis; glandulis ^{inclusis} marginis petiolatae (raro)



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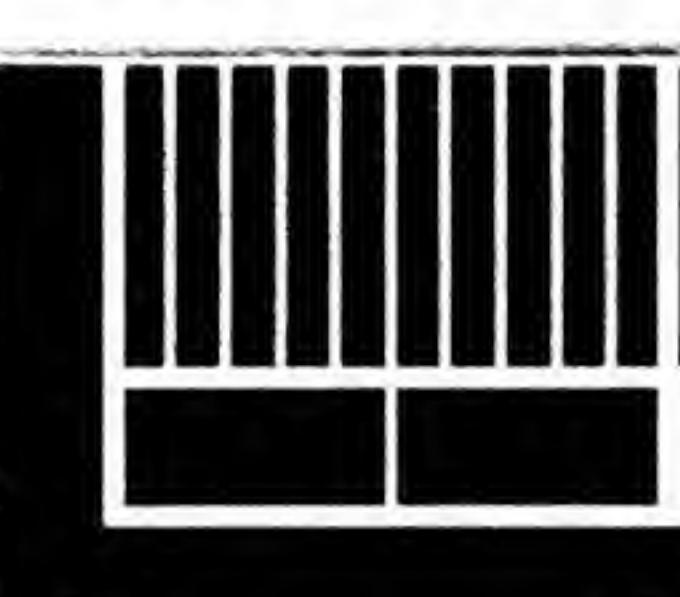
opposite conduplicating
oblong-sinuate
just now to
purple-violet-magenta
cayalii, transversely
for all parts of the 21. slate
115

For aspects of the U. S. State
The most common species with E. hypoleuca
— and known and carrying names:
E. mandibula (Pl. 141). E. thymifolia
Pursh etc — A variety with smooth
less distinct leaves — the leaves
of H. Canariensis
Doplopis

Erythrorhizon tauricostata annua
prostrata, rame adpresso persistente, foliis
glabriusculis, s. rotundis subpinnatis,
ovato-oblongis, obtusis, versus apic
remote crenulatis, basi oblique
subcordatis; petiolis brevibus, stipulis
cavis cato subulatis, subinde connatis
parallelis pubescentibus, terminalis
trinervis foliis is. terminalibus
glaucentiis, glauculis, involucro
magno pubescentes, (plenum raro)
(raro glauco, raro)
cylindricis, capsulis auct. apiciliis pubes-
centibus, seminibus e cinereo rubellis
obvatis, minuti tuberculatis.

At the base of the Thes to the
dark, grey sand, the sandstone
4 of a fine grey but is found the dark
10 the base of the east -

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Euphorbia americana

Sept 12th

verteI. Stipulacea, foliis oppositis
St. succ. black, foliolate

1. Euphorbia hypersinipolaris L. Hb. Sh. A. a. 32. 33
2. E. maculata L. 4. b. Hb. Sh. 3.
2. Succ. reddish gray, foliolate or tuberoliate or rugose
3. E. Depressa Torn. Hb. Sh. 4. c. 14. 15. 27. 29. 35.
4. E. dejecta miti (Sturm) 3 caps. hairy H. 5. 18. 26. 28.
5. E. lateralis obliqua (M. M. M.) caps. smooth (obliqua)
3. Succ. reddish gray, smooth
6. E. rotundifolia Hale H. 5. 16.
7. E. parvifolia miti (St. Louis) H. S. 30
8. E. cordifolia Ell. H. S. 17. 31.
9. E. polygonifolia L. H. S. 6. 20. 34.
10. E. Geyeri miti (Benthon)

II. Exstipulacea foliis oppositis alternumA. Flores solitarios - Dicotomia ramorum

11. E. spermatanthe L. H. S. 7. 8. 9.
12. E. granulata Ell. H. S. 22
13. E. oxythaphon L. H. S. 21
14. E. dentata Mx H. S. 10. 11.

C. Flores in umbellis involucratis dispositi.¶ glandulis orbiculatis - Flores vere ovalibus
× glandulis magis globulibus instructis.F. capsulis glabris

15. E. paniculata Ell. H. S. 12
16. E. corollata Lin. H. S. 1.
- FF caps. pilosis
17. E. marginata Pursh H. S. 19
18. E. bivolor miti (Taus.)
- xx glandulis "emarginatis"
- FF caps. rugosus sem. rugosus
19. E. arcuansana miti (Coryneb.)
- FF caps. rugosus, sem. rugosus

20. E. obtusata Pursh. et B. sem. majoribus (oblongo) H. S. 3

21. E. Darlingtonia Torn. H. S. 25.

22. E. inundata, Torn. H. S. 5.

5. 3. glandulis brevioribus× caps. levibus, sem. exsanguis.

23. E. affinis miti (Pursh. aut.) H. S. 2. (bis) partly (vera)

24. E. controversa miti (Coryneb.) H. S. 2 partly (ann.)

24. E. concipiens miti H. S. 23

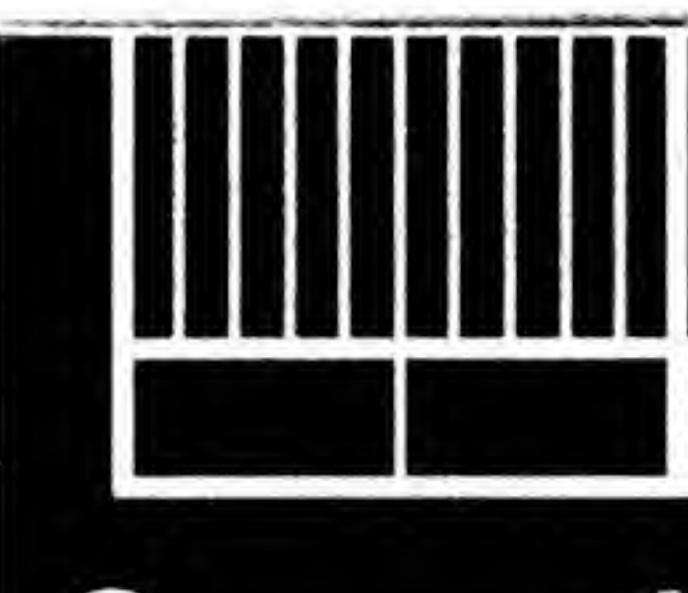
(Esch.)
5. 5. glandulis levibus.25. (Esch.)
cathartica
Euph. Merschii.

cm

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6715

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Euphorbiae of Prof Shantz's Herbarium

Sept 1883

1. Euphorbia corollata
different varieties, leaves broadly obovate, leaves linear oblong
— smooth or stem hairy.

2. Euphorbia under the name of E. peplis the
same as mine for "Hastula" "Rocky borders
of water courses" "flowering nearly all the year"
two other specimens from Columbia Ohio (Capshaw)
apparently the same, but stem simple
and root perhaps annual. ? — leaves
of stem long petiolate! — involucres very
broad coriaceous. distinct from Rhus by the capsule with
(Capilla - Rhus 2-lipped or non-lobed)
(This ^{separate} involucres)
3. Euphorbia oblongata, Kentucky, leaves obovate spatulate
coriaceous subpetiolate opp. one sessile ^{with broad base}, umbella 3-fid,
2-3 times bifid; — involucels glabrous, transversely ovate,
caps. reniform, seed black, smooth spherical compressed

4. Euphorbia under the name of Macleaya
a specimen of E. hyperborea Alexander L. from
Hale, uppers of the plant a little hairy,
no ripe seed.

b. a specimen from New Jersey, subdecumbent,
stem hairy, leaves somewhat hairy, more below
the above, palm. below, back serrate,
involucel glands petiolate white, capsule
smooth, glabrous, seed 4 angular black
with transverse furrows ^{var. of hyperborea} ~~probably the true macleaya~~

c. A specimen without locality of which we
E. depressa s. macleaya L. var.
call E. hyperborea (the most common one) but
leaves larger, smoother, stem suberect
very villous; — caps. hairy, seed = hyperborea
petiolate 4 angular; style, short; —
involucel glands not petiolate

5. Euphorbia inundata Torr. & Gray from Chapman
2 specimens; subdecumbent the habit of
E. corollata ^{perennial} ~~perennial~~; smooth, leaves lanceolate
acute, umbella 3-fid, umbellules 2-6 br.
involucel glands large, apparently red or purple



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points of the involucral leaves between the hys.
is large orbicular, fimbriate-lobate, purple
capsule?

6. Euphorbia polygonoides same as my specimen
from Long Island, without fruit.
Sand shores of Lake Erie, (Sullivan)
var. N. 20

7. Euphorbia peruviana three specimens from the
Rumbarus, New Jersey.

Terrestrial, stems short, opp. foliolate, 8 in.
tomentose with glands; flowers in long
peduncles solitary - th. 4-6. - Leaves
from linear to oblanceolate and broadly
obovata. - Leaves puberulose red.
Involucell glaucous large, between them
the points, small on the foliolate.

1. Specimen from N. Carolina similar - but green
leaves ~~exactly~~ along; not obovata.

8. E. under the name of E. peruviana
major - from N. Carolina, circ.
leaves linear long subpetiolate, attenuate
at base, flowers apparently the same
as 1. Spec. - glands probably reddish
- 1 foot high - somewhat of the habit
of small species of E. corollata.

9. " E. peruviana with its varieties
of the, Louisiana: puberul.; stem and
many from the same root. stems and the
lower side of leaves puberulent
leaves below not opposite; few green
to nearly orbicular, attenuate at base
Involucells hairy, glands reddish purple.
Seed white? caps. smooth

10. Euphorbia Hernonii A. Nels. for the author
with the E. dentata Ohio

11. Euph. dentata Kentucky

12. Euphorbia parvula Will. Boykin Georgia
Perennial; stem $2\frac{1}{2}$ feet high almost pubescent,
leaves ovate short petioled below hairy, flower
branched - the ax. lvs. of the leaves, top of stem
trifid, single branches with alternate leaves
which bear - their ax. lvs. flowering branches;
and 2 or 3 ft. The flowering branches
have a singular appearance, buds very
small obovate somewhat obovate,
many times dichotomous. Divided sometimes trichotomous; peduncles
long. Involucrum slightly pubescent; glands white
petaloid capsule smooth seed -

13. Euphorbia Lathyris " for West Chester Pa
Biddleheim Pa

14. Euph. depressa Torr. West Chester Pa. Dark green
entirely over E? they implex &

stems very short; glands greenish, not petaloid
sparsely small. Leaves with few hairs above, more
pubescent below; nearly entirely serrate

15. Euph. thyrsifolia D. Hale, Alexandria La.

Entirely the same; specimen larger; style
a little longer; glands with petaloid
reddish margin; leaves pubescent below,
smooth above; only upper half serrate

16. Euphorbia rotundifolia H. D. Hale Alexandria La

Prostrate; stem very branching; smoothish
branches adpressed pubescent, or white woolly with
short curly hairs. Leaves small, petiolated
oval or orbicular, subacute or obtuse at base,
subacute and very obtuse at the ^{above} ~~out~~,
lower surface woolly, upper one smooth;

The specimen is hairy - flower yet;
has a glaucous appearance and resembles
much E. cordifolia, if it was not for the
pubescence.

Involucrum smooth below, pubescent above,
glands reddish (?) not petaloid. capsule woolly

17. Euphorbia cordifolia Sc. D. Hale, Alexandria La

Much larger than our plant; smooth below
glaucous; probably the true plant of Elliott

671
Lipules 3 - ^{several} ~~small~~ ~~few~~ membranaceous, involucral
glands white petaloid. Capsule? ^(E. humistrata)

(- our plant) the involucre is mostly half as large
glands petaloid, but much smaller, reddish white.
Stipules connate ovate, on the margin segmented
divided; not ^{divided} in many filiform segments as the
South - plant; points between the glands of
involucre entire? ⁱⁿ in the larger south plant
not perceptible.

18. Euphorbia ^{samples of this seen} 1840

Entirely our plant, called by me E. ~~virgiana~~ humistrata

Involucral glands petaloid, rose coloured
19. Euph. marginata ^{long gland} ¹⁸⁴⁰ ~~Long Island~~
smooth, but
petioles hairy, involucres hairy, glands white
petaloid. Capsules hairy. points between
the glands mult. f'd, hairy
leaves ovate subsessile; smooth
stem with single hairs.

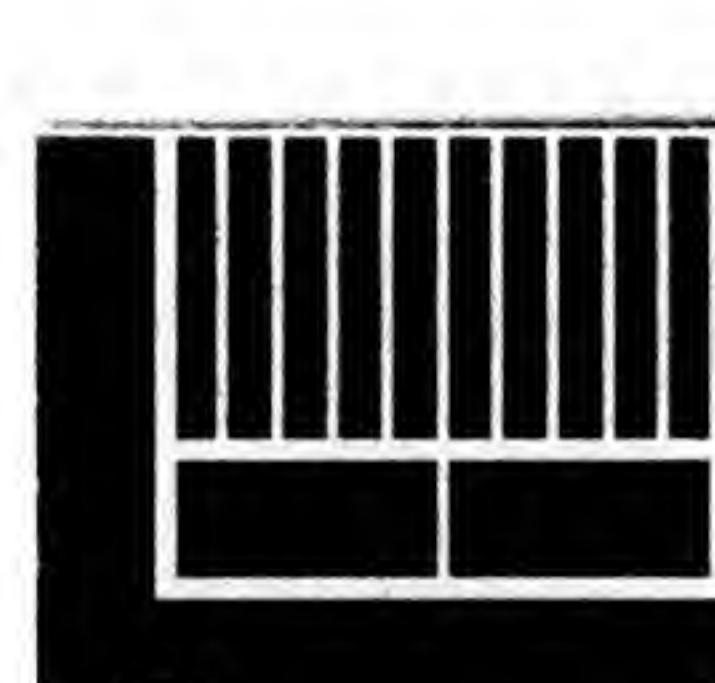
20. Euph. maritima ^{with} ~~for~~ ^{Long Island} 1840
Rip. ends - the same as my specimen from
Long Island, size not to be distinguished
from No. 6. perhaps stipules more divided

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21. Euph. cyathophylla ^{11. Carolina} - my plant
leaves broad, pinnatifid, base red.

22. Euph. gracilis ^{umbellifl - twice L. f. 5} Curtis N. Carol
perennial, erect, smooth, linear leaves
somewhat pubescent opposite (mostly) - stem divaricating, flowers
single, long peduncled, glands petaloid
white, emarginate. ^{vide Elliott pag 657}
d. dist. from C. spumans by the pubescent
glands

23. Euph. Replis ^{Boyle, Georgia} ought to
be E. Replis but is perhaps the same
as 2. apparently annual - stem leaves
spatulate, deeply emarginate or obtuse
leaves much narrower than 2 and involucra



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Analypha

1863

1. A. virginiana L. foliis ~~ovato lanceolatis~~ - ~~secundum~~ ~~ovatis~~
~~petiolatis~~, ~~ovato lanceolatis~~, ~~ornato serratis~~
~~subintegris~~, ~~ovato lanceolatis~~, ~~ornato serratis~~
~~involutis cordato ovatis~~, ~~ornato dentatis~~ ~~ovatellatis~~,
~~flavibus~~ sporis basi formicis, ~~capsule~~ ~~tri-~~
~~stylo~~ 3 ~~laminato~~ ~~pinnae~~ ^{marginata} sporis petiolis ~~tridens~~
~~semiribus ovatis~~, ~~leviter~~ ~~lineato exaratis~~
~~arctis~~.

A. grayi Gray

~~(petiolis dimidiatis foliis latitudine subequalibus)~~
~~petiolatis~~, ~~ovato lanceolatis~~, ~~ornato serratis~~
~~leviter ornatis~~, ~~semiribus minoribus~~

A. virginiana B. ~~caroliniana~~ foliis longis petiolatis
Gray (petiolis (latitudine foliij) plaequantibus)
rhombico ovatis serratis s. ornato-
serratis; semiribus majoribus.

Intermediate forms are common, and not distinguishable.
Sometimes forms with narrow ornate leaves
have long petioles and others with broader leaves
have shorter petioles; leaves more rhomboid or more
ovate lanceolate or even oblong; serrations very different.
I can not distinguish the plants with smaller seeds
from those with larger ones.

St Louis

2. A. monotropa N. sp. foliis breviter petiolatis,
linear-lanceolatis, subintegris, involucris subintegris
cordato ovatis, dentatis, ovatellatis; sporis basi
formicis, stylo ~~laminato~~ pinnae - capsulis
monotropis semiribus ovatis (majoribus) profundius
creato exaratis.

A remarkable plant by its always monosporous fruit;
easily distinguished by its narrow leaves, its capsule
and its large ~~plenty~~ seeds which are covered as
it were by engraved lines, which are visible
to the naked eye - those of the former species
can only be seen under the lens.

also ^{minutissime} ~~minutissime~~ of no.
Rocks near Vicksburg with Aster oblongifolius,
caroliniana Wall (petiolis longis foliis aquat. & exaratis)

3. A. Elliottii n. sp. foliis longissimis petiolatis, ovatis
basi subcordatis, aucte serratis, sporis ^{marginata} ~~maso~~ ^{marginata} formicis
distictis, ^{maso} ~~marginata~~ ^{marginata} sporis axillaris inferantes, petiolis exaratis.



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terminal lvs. flowers few per cent. anato. seminaria
multi-partit., lassini's linearis glandulosis. - High,
3 lassini's. apalis herbaceous - schizolata, slender?
(majoris) tuberosulata.

A. Caroliniana Ell! Walt? ^{affinch. - part}
non Rush & anat. fl. amer. ^(ex desor)

Specimen in the Street in St Louis! B.C.
Never since!

at very distinct species, nearly related apparently
with *A. occidentalis* Kunth (Pr. 883), with
long female spikes and coherate capsules, ^{oblong} ~~ovoid~~
e.g. a multifidous glandular involucre.

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Alypia gracilis A. Gray - St Louis Sept 1868: In the axils of
the leaves is one inflorescence; female glomerules one or two, ^{alternate}
subtended by a large ^{irregularly} toothed bract - ^{usually} three flowers
- each, but generally only one ripening fruit - spike elongated
bearing several (small flowers) glomerules of). - In the axil
of this inflorescence is very frequently a second one, mostly small
and with short spike and small bracts; and sometimes a
third one -

The stalks of the inflorescence bears the first female glomerule
with the largest bract a little above the base - ^{one above}
this the second one, if there is any. -

Glomerules few in each axil, longer than
the petiole

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Alypia virginiana var. Sept 1868.

grows in shady fertile soil, bottom woods - ~~soil~~
In the axils of the leaves are almost always 2, 3 or even more
inflorescences; female glomerules one or two alternate; each
subtended by a large ^{irregularly} deeply incised bract, usually
2 or 3 flowers in each, but mostly only one or after the first has
fall off a second one ~~fallen~~, ripening fruit - spike slightly
elongated, but not longer than the bracts of female flowers
bearing a few glomerules of male flowers. - Mostly 2 glomerules
of inflorescences -

Glomerules many in each axil, shorter
than the petiole

capsule obovate on the back of
the carpels, toward the top.



cm

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I. Stipulatae

1. semina pectolata, rugosa, s. tuberculata (foliis plumisque serratis)
2. a. semina nigritantia
3. *E. hypericifolia* L. seminibus obsoletis, oblongis angulatis, foliis glaberrimis
4. *E. maculata* L. ? sem. oblongis, acute angulatis, foliis pilosis
5. *E. semina* e cinereo-rubella + foliis serratis, ~~foliis~~ ^{foliis} calibus pubescentibus
6. *E. depressa* Torn. sem. transversim pectolatis
7. *E. humistrata* n.sp. sem. minutissim taberculatis (St Louis, Kentucky)
8. *E. oblongifolia* n.sp. sem. transversim rugosiss (Wilson - Texas, Louisiana) + foliis serratis, calibus glaberrimis
9. *E. lateralisp* n.sp. sem. minoribus oblongis transversim pectolatis
10. *E. angustior* n.sp. sem. majoribus, oblongo-linearis, transversim pectolatis + foliis integris, glaberrimis
11. *E. Deltoidea* n.sp. sem. transversim pectolatis, foliis triangularibus acutis
12. Semina laevia (e cinereo rubella, foliis integra, glaberrima)
13. *E. paniculata* Nutt. foliis ovato orbiculatis, floribus et seminibus miniciss, stipulis integris
14. *E. cordifolia* Ell. foliis cordato-ovatis, floribus conspicuis, seminibus majoribus, stipulis ^{alig} setace multifidis
15. *E. Geyeri* n.sp. foliis oblongis, retusis, invol. petaloidis, seminibus majoribus
16. *E. polygonifolia* Lin. foliis oblongo-linearis, obtusis, involucris glandulosis, seminibus ^{Maximus}
17. *E. arenaria* Nutt. n.sp. foliis linearibus, involucris longe pedicellatis, singulis, seminibus majoribus

II. Exstipulatae

A. floribus in dichotomis ramulorum solitariis, foliis oppositis

14. *E. Speciosa* Lin.15. *E. gracilis* Ell.

B. floribus in glomerulos dichotomos terminales aggregatis

16. *E. cyathophora* L.17. *E. graminifolia* Mich. (varietas cyathophora ?)18. *E. Dentata* Mich.

C. floribus in umbellas, involucratis dispositis

* glandulis orbiculatis s. transversim ovalibus

§ glandulis margine petaloides

†. capsulis glabris exsertis

19. *E. paniculata* Ell.20. *E. corollata* Lin.

. B. caps. pilosis

21. *E. marginata* Pursh22. *E. Giseton* n.sp.23. *E. uloleuca* n.sp.

§§. glandulis sine margine petaloides

a. capsulis verucosis

† sem. rugosiss

24. *E. arkansana* n.sp.

†† sem. laevibus

25. *E. obtusata* Pursh26. ? *E. Darlingtoniae* Torn.27. ? *E. inundata* Torn.

B. capsulis laevibus

recte



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II. Exstipulatae

6719

C. floribus in umbellis, involucratis dispositis
** *glandulis lanatis*
S. capsules laevibus
+ *seminalibus exscaphis.*

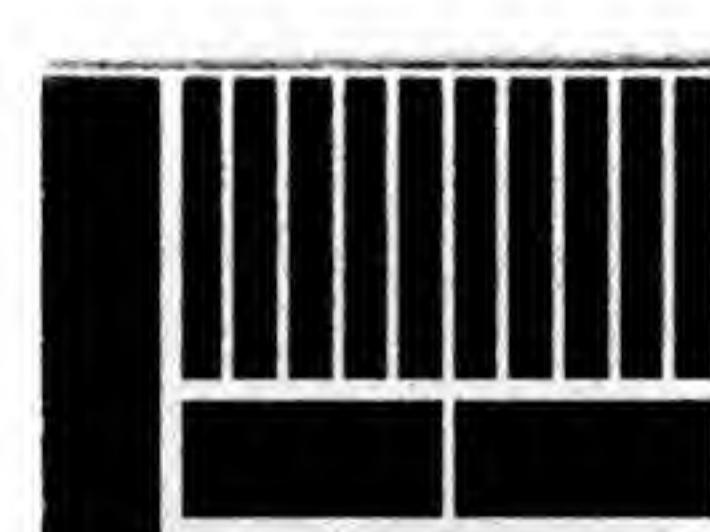
27. *E. commutata* n.sp. (Populus aust. americ.) 4 Kentucky, Missouri

28. *E. controversa* n.sp. 0 Ohio

29. *E. cuneifolia* 2-sp. 0 Georgia, Tex.

30. *E. Merschii* n.sp. 2 Upp. Missouri

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